CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory
An ISO 9001:2015 Certified Company
NABL - Accredited Laboratory as per ISO / IEC-17025 : 2017

JAS-ANZ
BSCIC
ISO 9001 REGISTERED

No. : CTCE/BBMP/PMC/DD/2020/34

Date: 23.03.2020

To,
Executive Engineer,
Project Division, Dasarahalli Zone,
Bruhat Bangalore MahanagaraPalike
Bangalore.

CERTIFICATE

Reference : BBMP/EE/DD/WO/000012/2019-20 Date:07.03.2020

Name of work: Improvements of roads and drains at Shettyhalli and surrounding area in Ward No.12, Project Division, Dasarahalli (Package – 1), BBMP, Bangalore.

This is to certified that the 1st and Part bill of the above said work has been executed satisfactorily and the quantities of work done has also been certified.

Thanking you,

Civil-Tech Consultants & Engineers Bangalore

With Regards,

For Civil-Tech Consultants and Engineers

23/03/2020
Authorized Signature

#23/14, 7th Cross, 3rd Stage, 4th Block, Shakthi Ganapathi Nagara, Basaveshwaranagara, Bangalore-79.
Tele fax : 23223227, Cell : 93428 39190, Website : www.civiltechconsultants.com
e-mail : vishwanath.ia@civiltechconsultants.com / info@civiltechconsultants.com

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No. : CTCE/BBMP/PMC/PD/2020/34 Date:23.03.2020

To,
Executive Engineer
Project Division, Dasarahalli Zone
Bruhat Bangalore Mahanagara Palike
Bangalore.

COMPLIANCE REPORT

Dear Sir,

Reference : BBMP/EE/DD/WO/000012/2019-20 Date: 07.03.2020

Name of work: Improvements of roads and drains at Shettyhalli and surrounding area in Ward No.12, Project Division, Dasarahalli (Package – 1), BBMP, Bangalore.

With respect to the above subject & name of the work, we have supervised the work and the quantity and quality of below mentioned items of the work was found to be completed satisfactorily for the **1st and Part bill.**

Sl. No	Description of Work	Unit	Qty
1	Earthwork Excavation by manual means for roads, drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed the disposedearth to be levelled neatly after breaking of clods complete as per specifications.	Cum	462.65
2	KSRRB M2100-10. Providing and laying plain cement concrete of mix 1:3:6 with OPC @ 220 kgs, with crushed 40mm and down size graded granite metal coarse aggregates @ 0.89 cum and fine aggregates @ 0.46 cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days including cost of all materials, labour, HOMcuring, form works, scaffolding and centering complete as per specifications. complete as per direction of Engineer incharge.	Cum	133.33
3	Providing and laying plain/reinforced cement concrete for side drains using M20 nominal mix concrete with OPC at 300 kgs, with 20mm and downsize graded granite metal corse aggregates @ 0.69 cum and fine aggragates @ 0.43, cum machine mixed, well compacted for walls and bottom including centering and shuttering , cost of materials labours HOM machinery, curing etc., complete excluding cost of steel as per MORTH spevification No.1500,1700,2200 including cost of materials, labour.	Cum	149.83
4	KSRRB M4.9.2. Providing T.M.T. steel reinforcement for R.C.C. work including straightening, cutting bending, hooking, placing in position, lapping and welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps,hooks and wastage shall not be measured and paid) cost of materials, labour, HOM completete as per specification,	Tonnes	9.15
5	Providing and Fixing pre cast covering Slab made out of CC 1:2:4 with 10cm thick and finishing cutting, including from work, curing, cost of all materials, labour, hire charges fo machinery, loading, unloading, lead andlift, transportation etc, complete as per direction of Engineer incharge.	Sqm	375.93

Asst. Executive Engineer
Project Division, Dasrahalli Zone
BBMP, Bangalore

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Sl. No	Description of Work	Unit	Qty
10	excavation for road work in soil with hydraulic excavator of 0.9 cum bucket capacity including cutting and loading in tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transporting to the embankment location to a lead of 1km and complete as per specifications complete as per direction of Engineer incharge.	Cum	127.87
11	Compaction of original ground with maximum of 6 passes of 8 to 10 tonnes power roller including filling in depression occuring during rolling including cost of all labour, HOM of machinery complete as per specifications. Complete as per direction of Engineer incharge.	Cum	426.24
12	Construction of granular sub-base Grading V as Sub-base and drainage layer by providing coarse graded crushed stone aggregates of granite/trap/basalt material, mixing in a mechanical mix plant at OMC, Carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the 98% proctor density, complete as per specifications complete as per direction of Engineer incharge.	Cum	63.94
13	Constructing un-reinforced, plain cement concrete for pavements using Grade concrete M30 over a prepared basewith OPC coarse aggregate at 0.69 cum, fine aggregates at 0.46 cum, Coarse and fin aggregate conforming to IS:383-2016,with Superplastizer at 3 lts conforming to IS 9103-2008. mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design,laid in approved fixed side form work (steel channel, layingand fixing of 125 micron thick polythene film, wedges, steelplates including levelling the form work as per drawing). & Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished with floators in a continuous operation including provision of contraction, expansion, construction and longitudinal joints,including groove cutting charges, joint filler, separation membrane of impermiable plastic sheet of 125 micron, sealant primer,joint sealant, admixtures as approved curing compound, finishing to lines and grades, textured with texturing machine, and curing including cost of all.	Cum	87.4
14	Vaccum de-watering with vaccum pump and suction mat and compaction with skin floater clubbed with floating disc including cost of genorator, HOM of machinery, screed vibratory, Power floater, blade and disc etc., with all lead and lift. Complete as per direction of Engineer incharge	Cum	426.24

For Civil-Tech Consultants and Engineers

23/3/2020
Authorized Signature

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Project Division, Dasrahalli Zone
BBMP, Bangalore

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ABSTRACT OF FREQUENCY OF TESTS CARRIED OUT

Name of Work : Improvements of roads and drains at Shettyhalli and surrounding area in Ward No.12, Project Division, Dasarahalli (Package – 1), BBMP, Bangalore.

Type of Road Surface	Minimum Number of Tests as per IRC norms	Number of Test done during execution	Percentage of Tests carried out as per IRC norms
I	II	III	IV
CIVIL WORKS	29	29	100%
GSB	2	2	100%
TOTAL	**31**	**31**	**100%**

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Name of Work : Improvements of roads and drains at Shettyhalli and surrounding area in Ward No.12, Project Division, Dasarahalli (Package – 1), BBMP, Bangalore.

Description	Quantity	Unit	Total Number of test to be carried out as per IRC	Actual Number of Test to be conducted	% Completed
I	II	III	IV	V	IV
1) PCC 1:3:6 a)Cement b)M-Sand c)Aggregate 40MM d)Aggregate 20MM	133.33	Cum	4	4	100%
2)Cube M20	149.83	Cum	18	18	100%
3)Precast slab (100mmthick)	375.93	Sqm	1	1	100%
4)Steel-10MM	9.15	Sqm	1	1	100%
5)Cube M30	87.4	Cum	5	5	100%
TOTAL			**29**	**29**	**100%**

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ABSTRACT OF FREQUENCY OF TESTS CARRIED OUT

Name of Work : Improvements of roads and drains at Shettyhalli and surrounding area in Ward No.12, Project Division, Dasarahalli (Package – 1), BBMP, Bangalore.

Test as per IRC Norms	Frequency of test as per IRC Norms	GSB		
		Total Quantity executed **63.94 cum**		
For GSB Works		Minimum tests Required as per IRC norms	Actually test done during execution	Percentage of test carried as per IRC Norms
Gradation	1 test per 200 cu. Mt. of aggregate	1	1	100%
Atterberg limits	1 test per 200 cu. Mt. of binding material	1	1	100%
Total		**2**	**2**	**100%**

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